

Abstract of the Disclosure

A transmitter and an applicable method comprising an antenna system for achieving two transmit paths, a first modulator for modulating a signal to be transmitted into complex modulation symbols, and a second modulator for constructing layered channel symbols as linear combinations of the complex modulation symbols is disclosed. The second modulator constructs channel symbols by using first and second non-zero coefficients when performing the linear combination. The ratio of the first and second coefficients is not a real number. The channel symbols are transmitted by using a first non-zero total power for transmission on a first transmit path, and a second non-zero total power for transmission on a second transmit path, wherein the first and second total powers are not equal.